

Figure 1

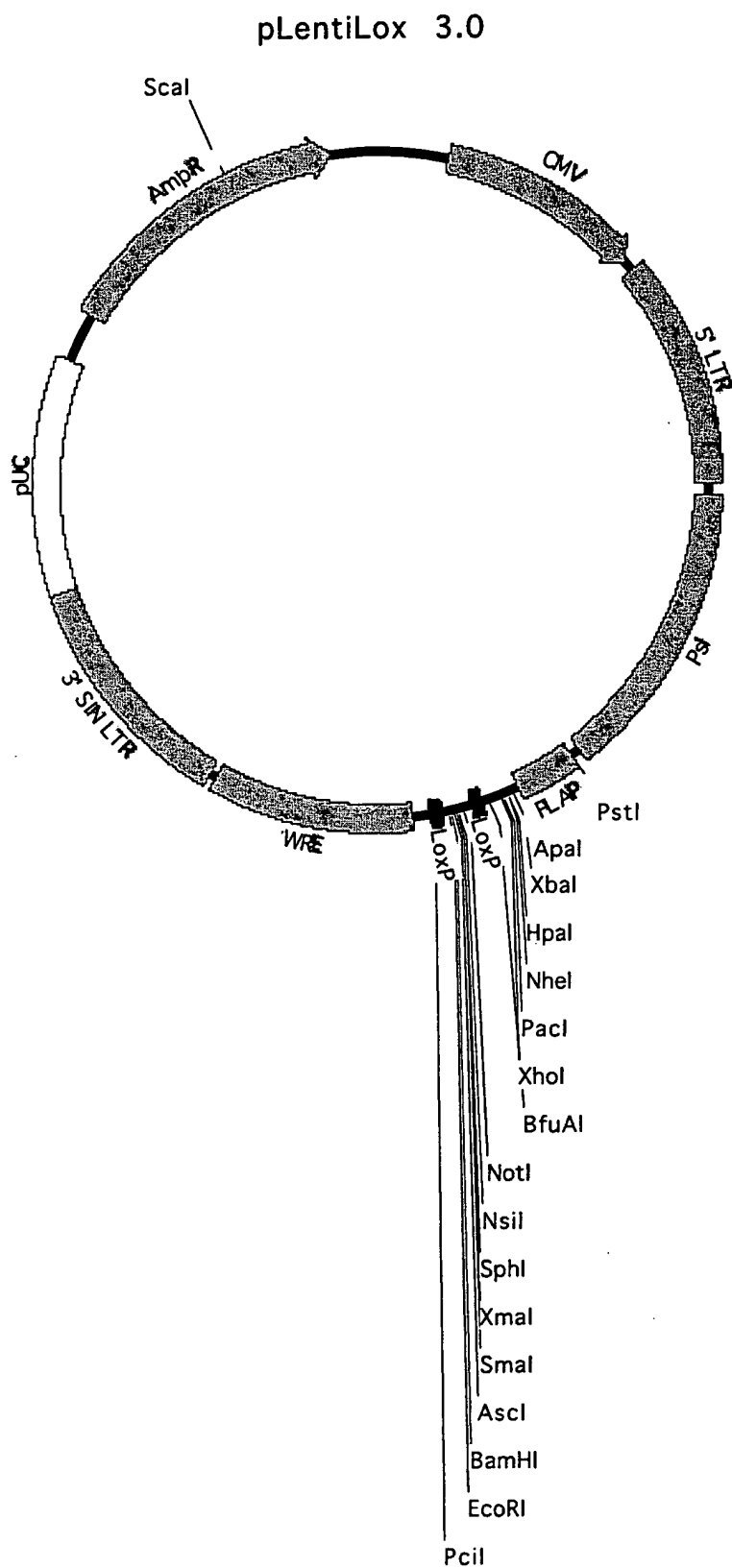


FIGURE 2

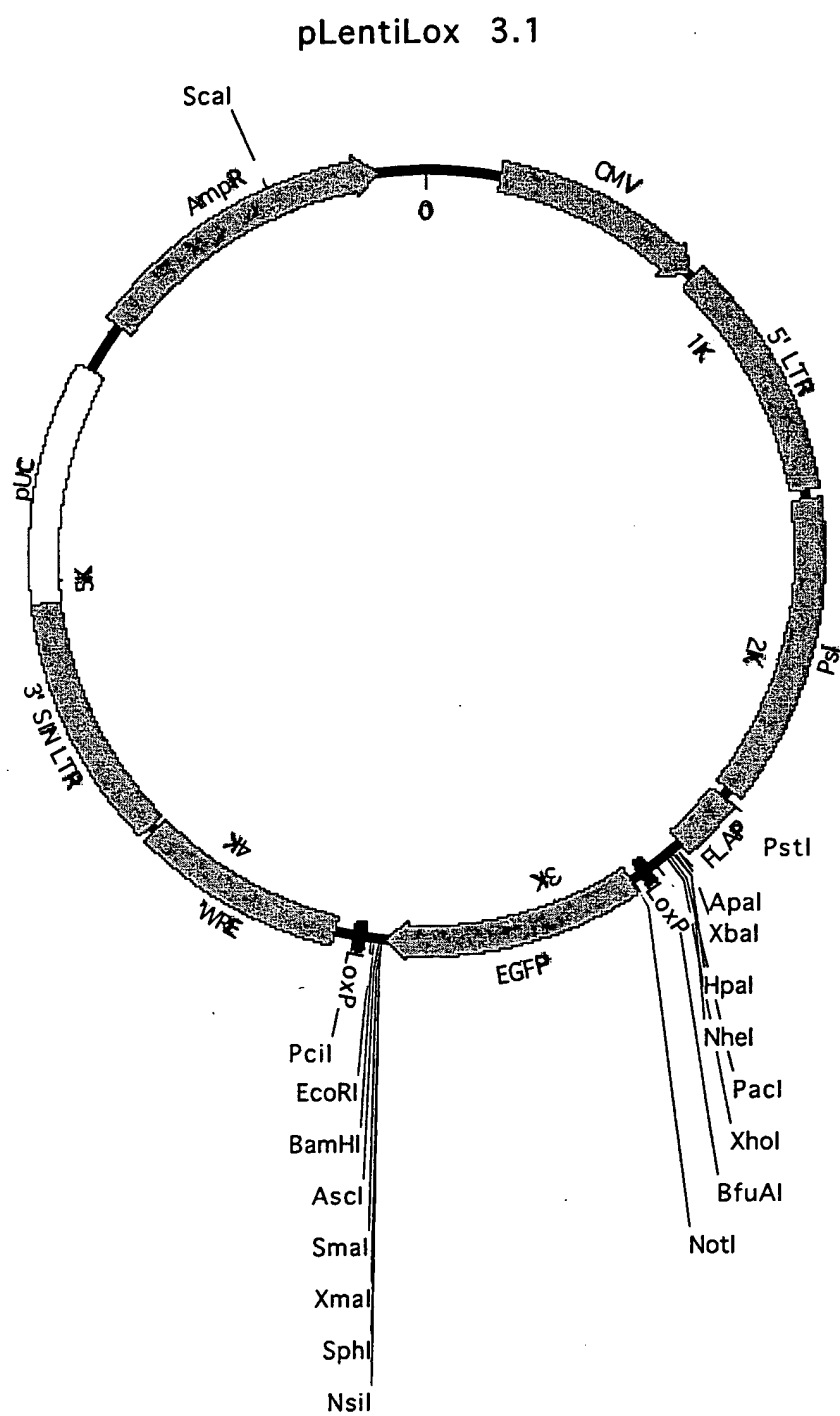


FIGURE 3

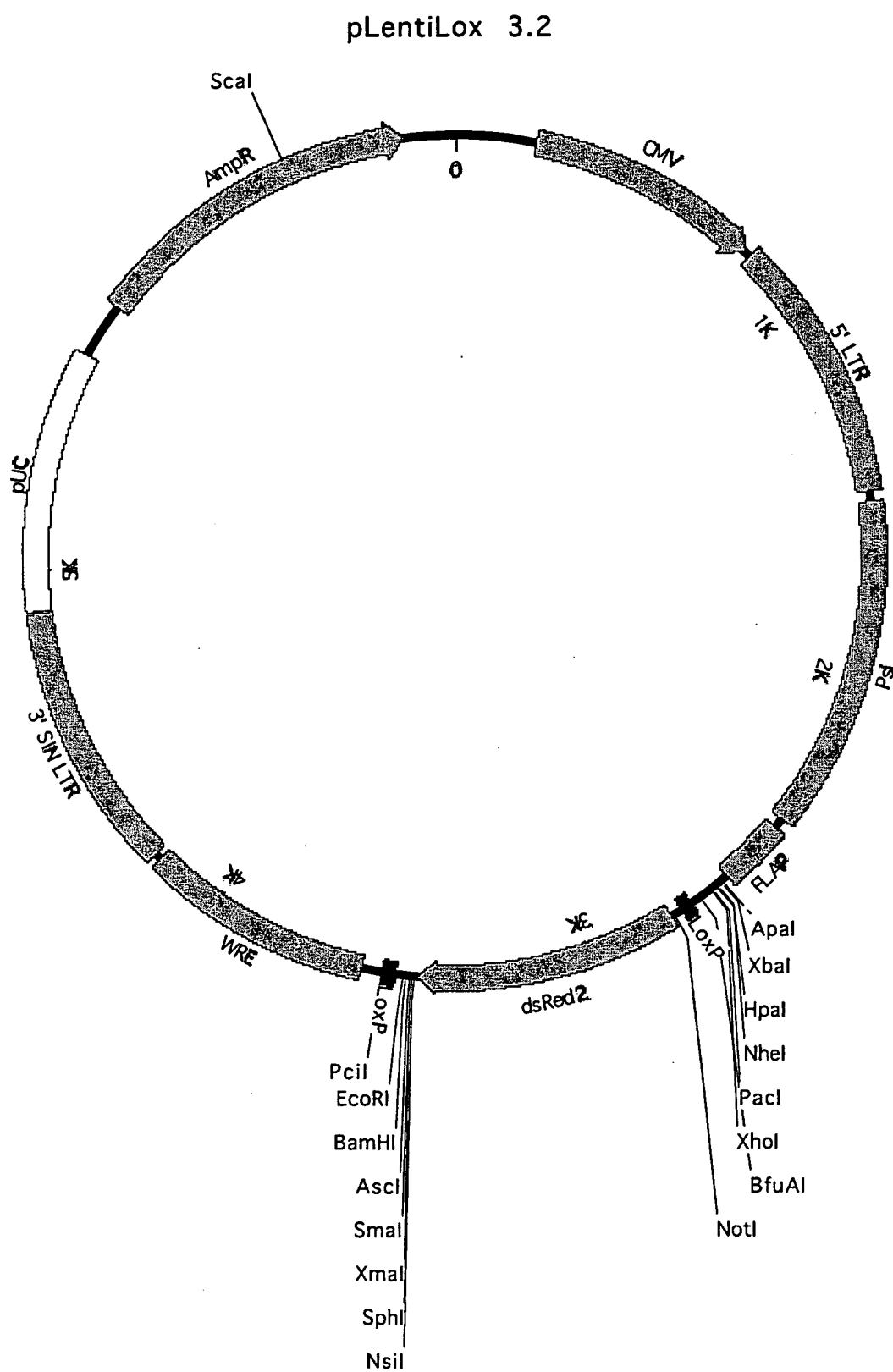


FIGURE 4

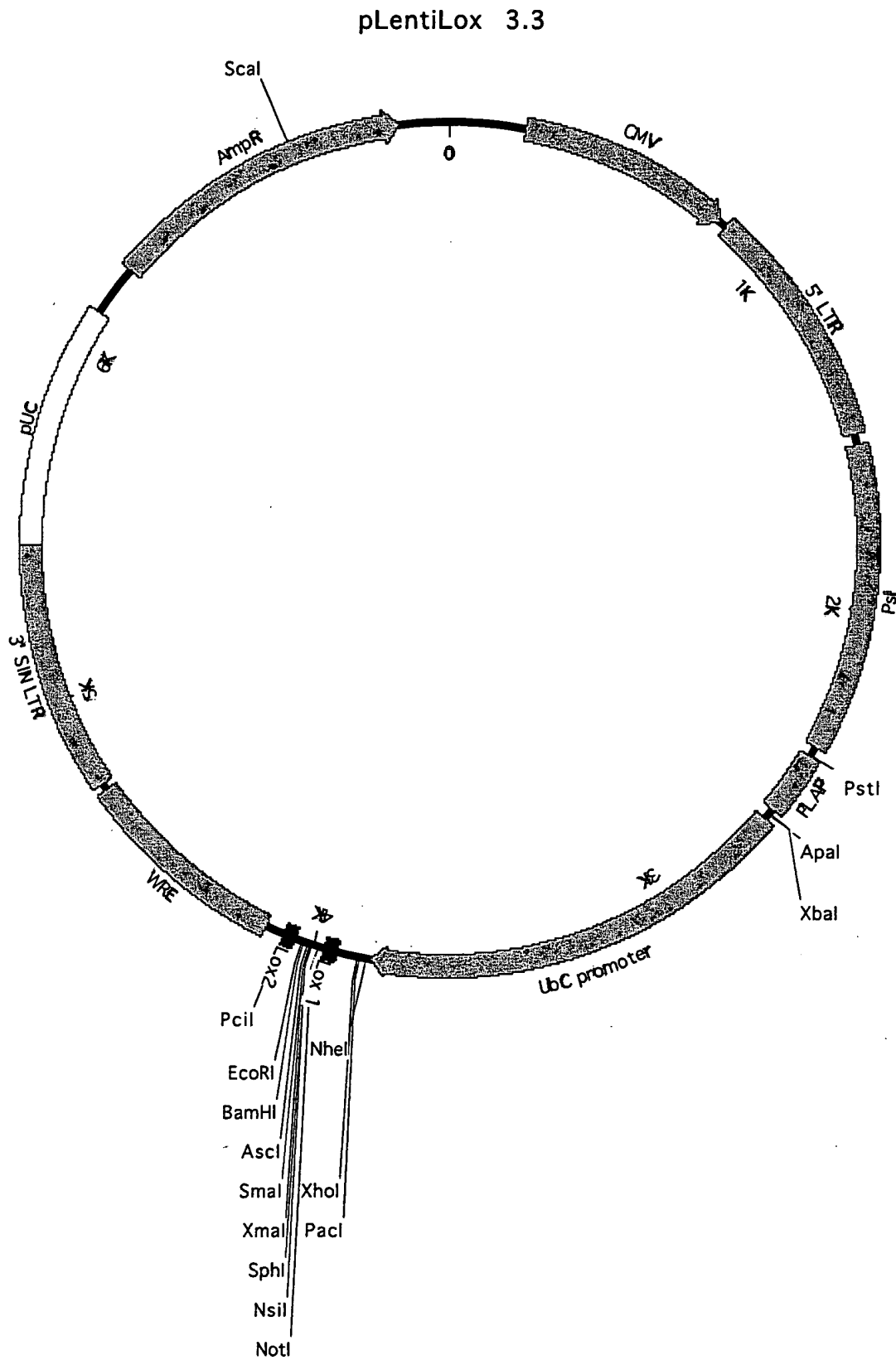


FIGURE 5

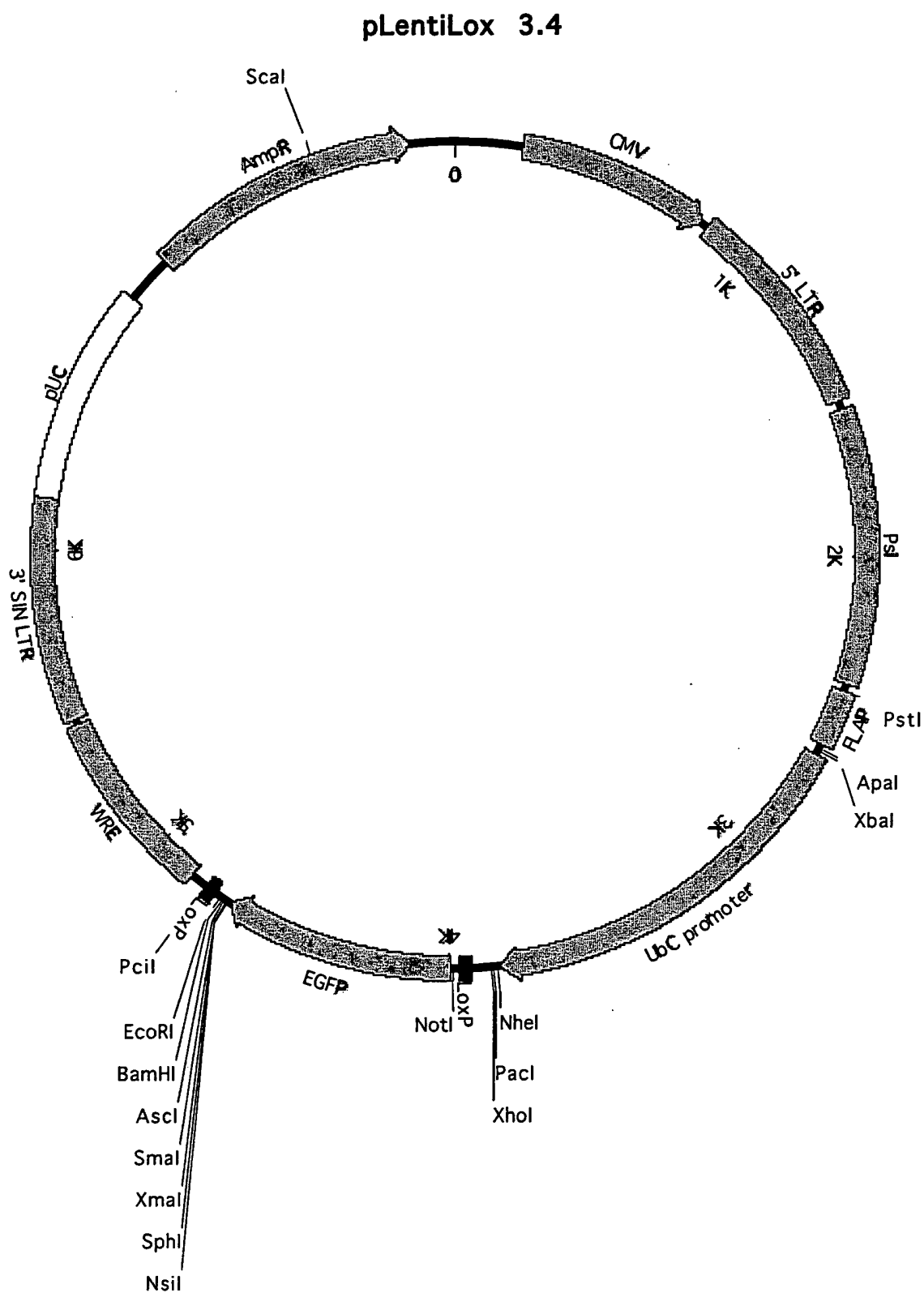


FIGURE 6

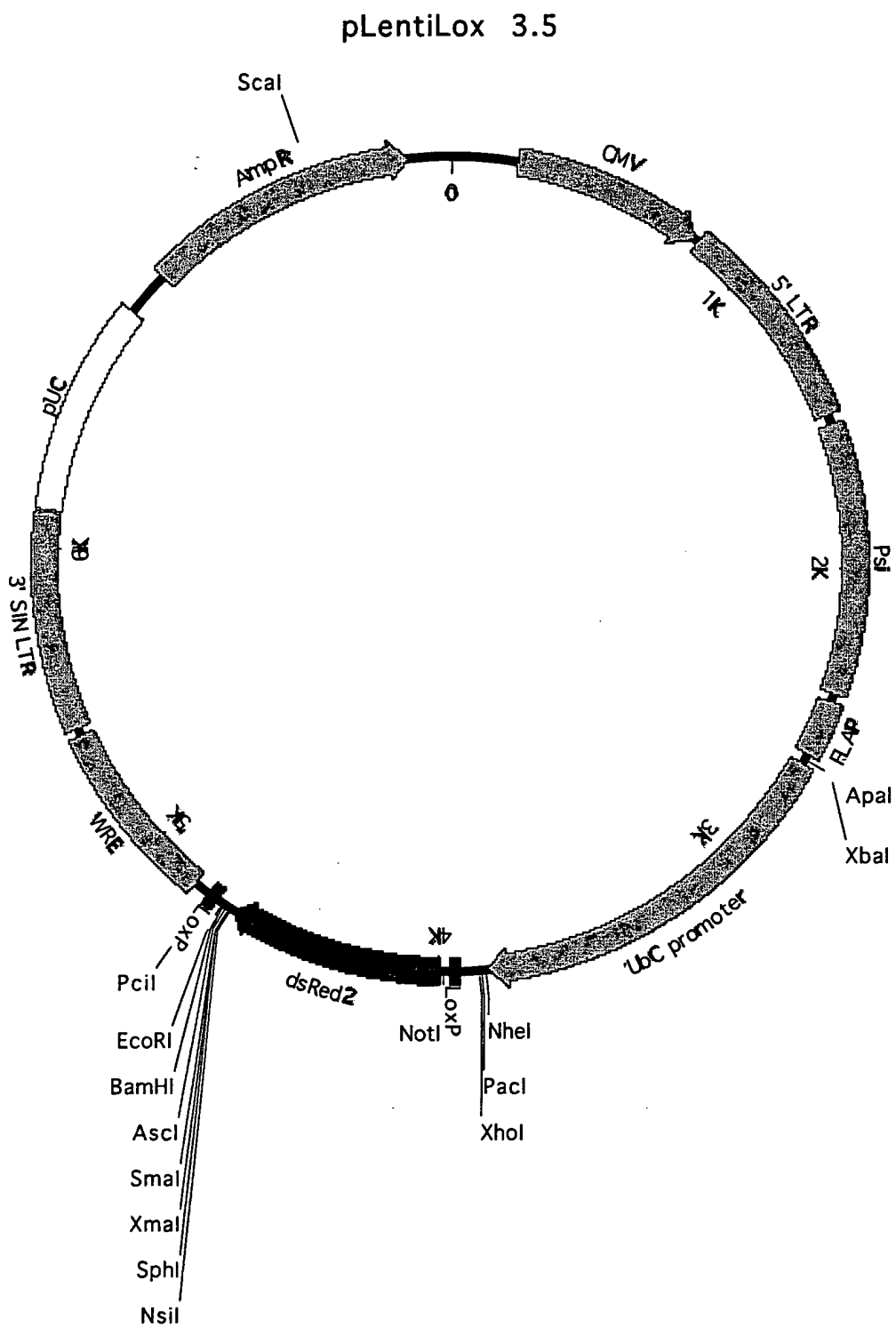


FIGURE 7

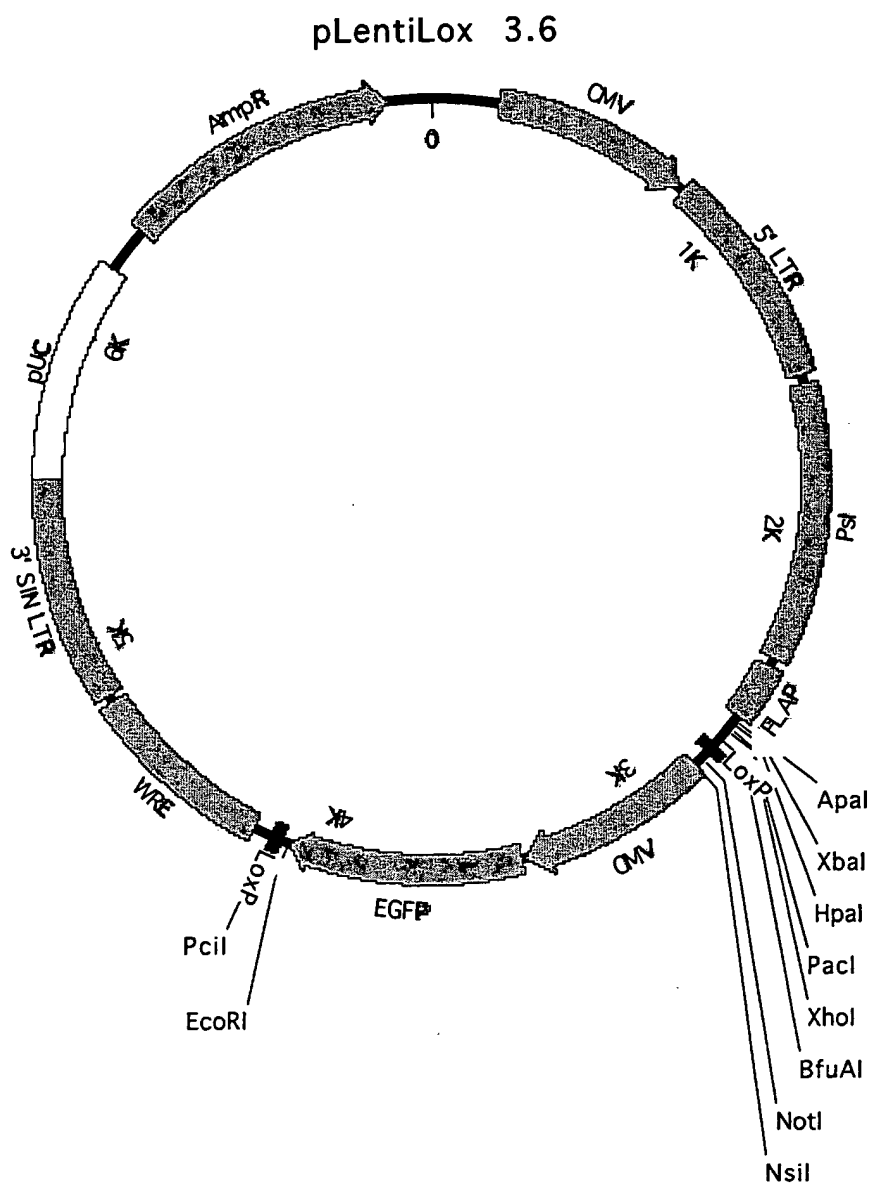


FIGURE 8



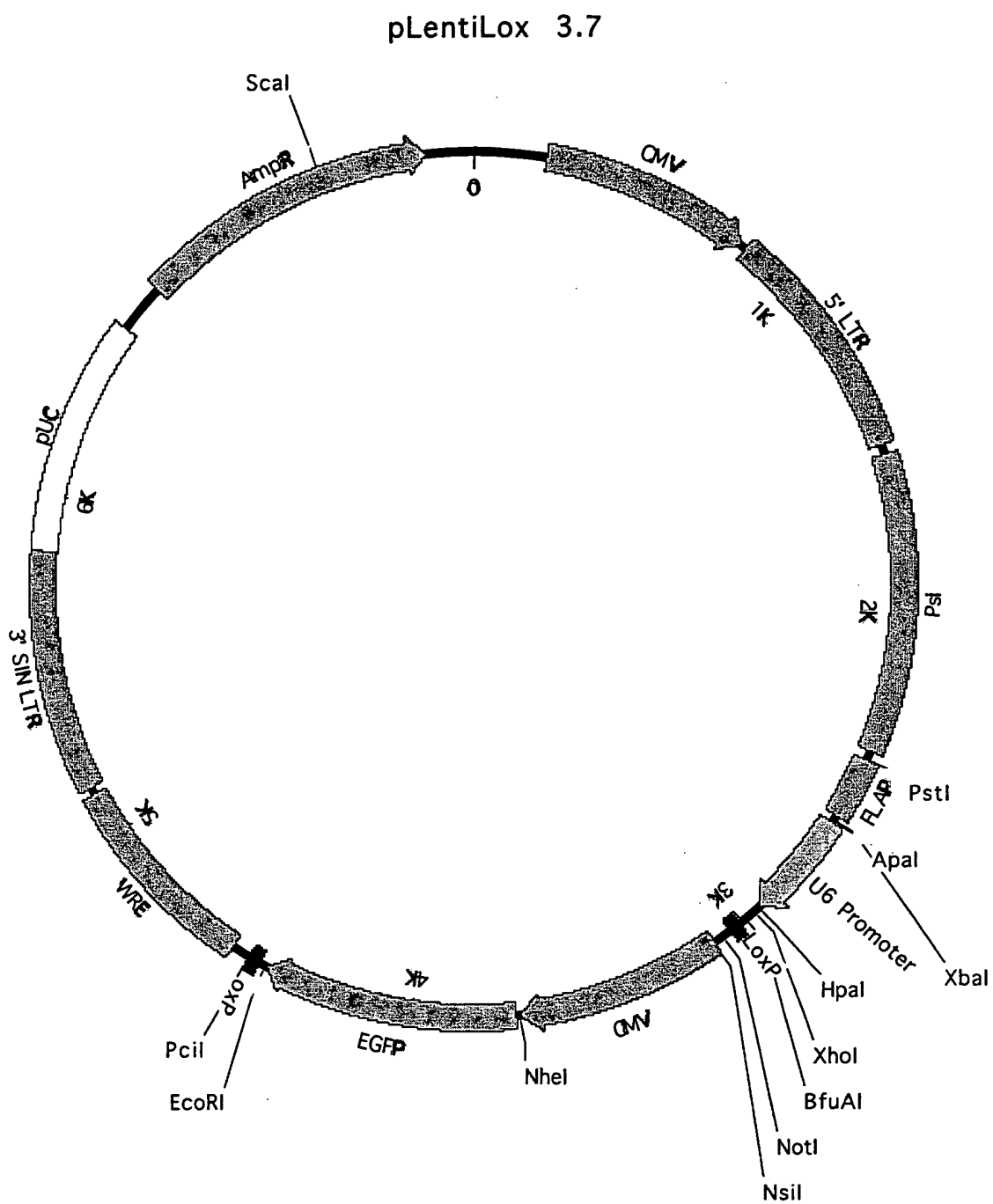


FIGURE 9

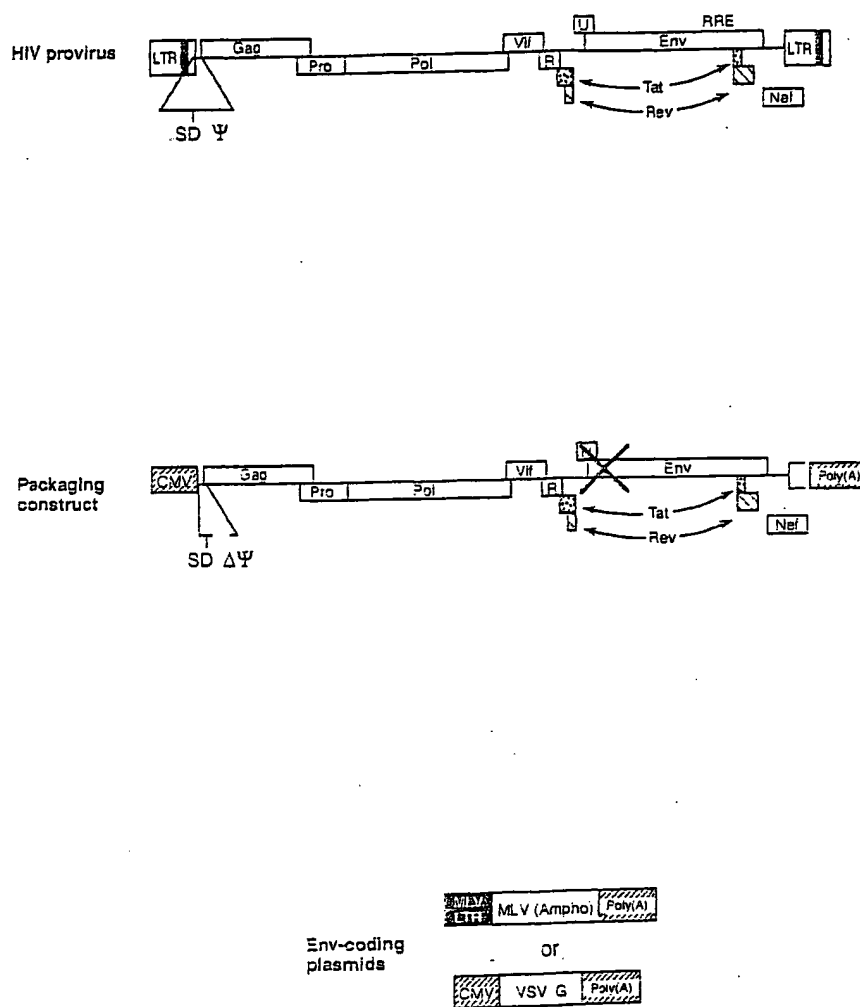
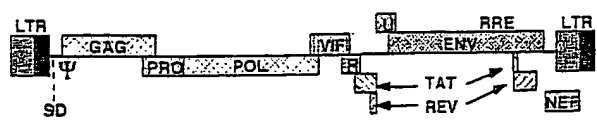
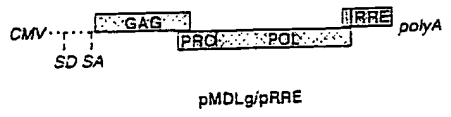


Figure 10 A

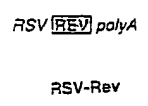
HIV Provirus



Packaging Construct



Rev-coding Plasmid



Env-coding Plasmid

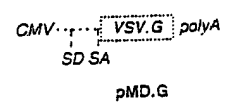


Figure 10B

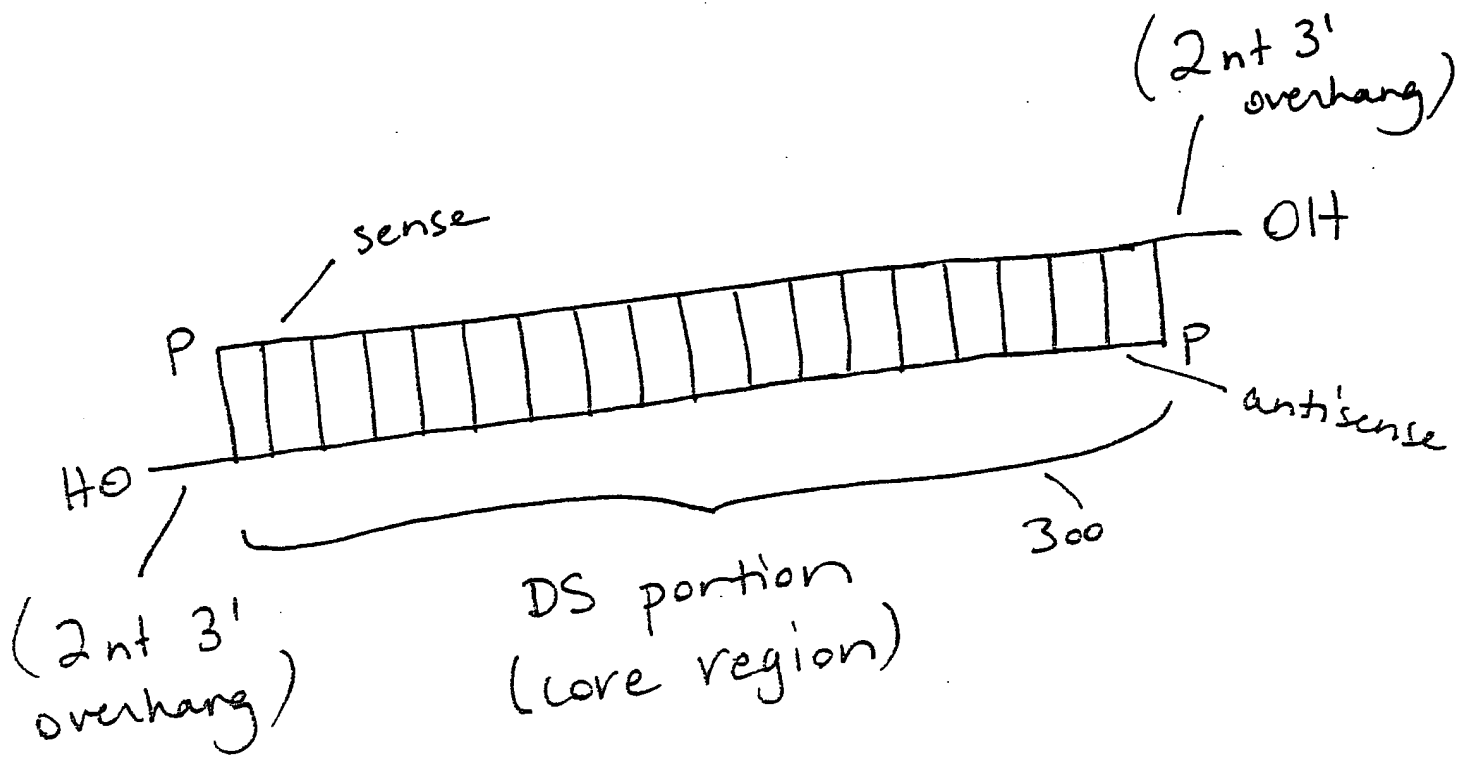


Figure 11

# RNAi in Drosophila

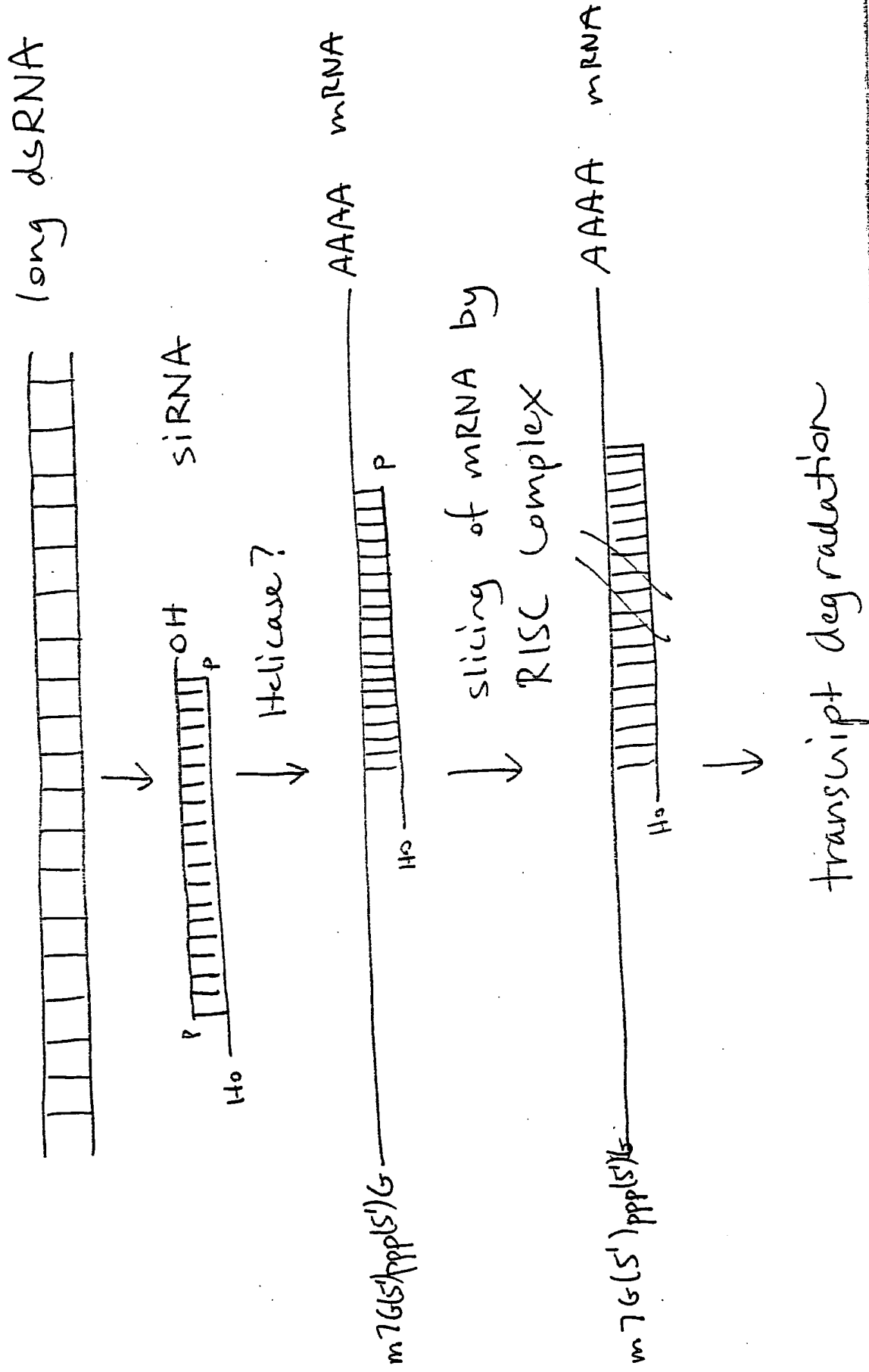
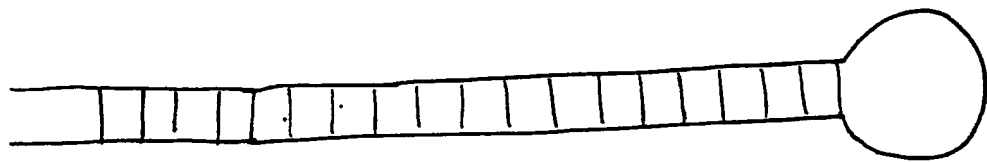
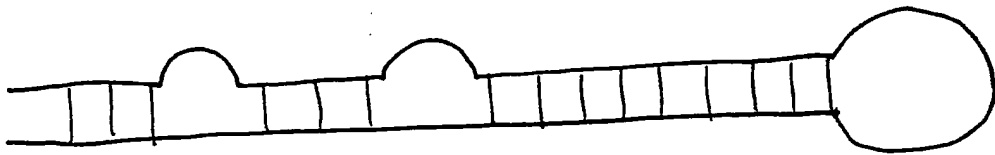


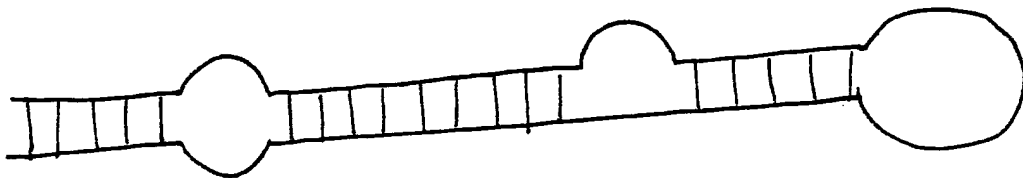
Figure 12



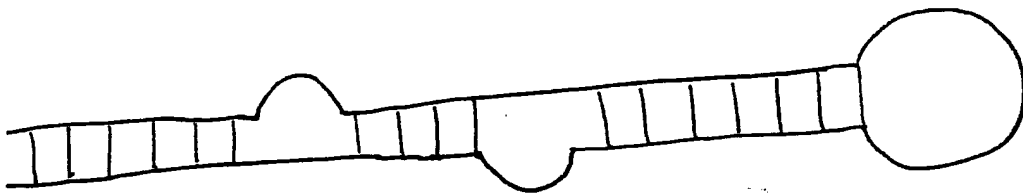
A



B



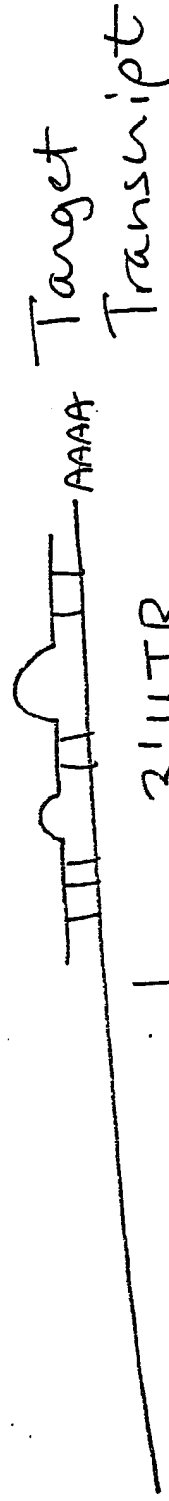
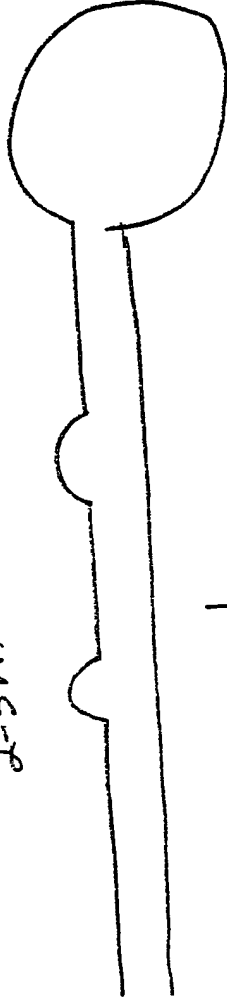
C



D

FIGURE 13

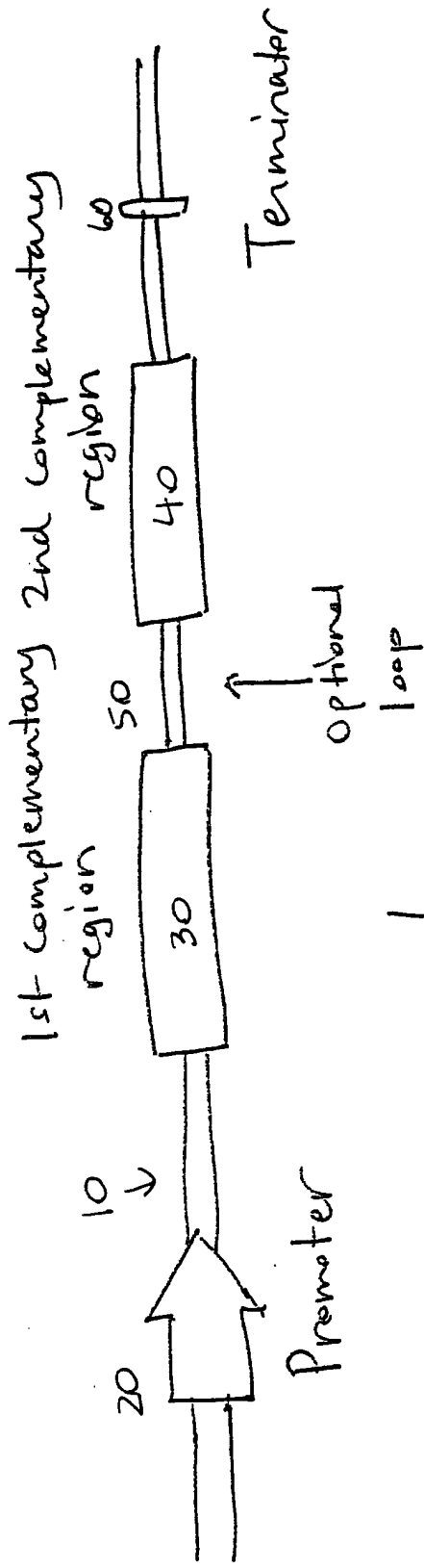
2-3 nt mismatches



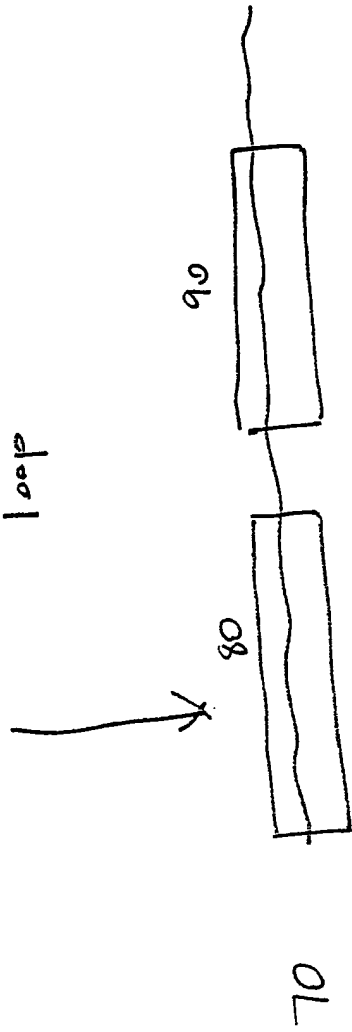
Translation

Figure 14

A



B



C

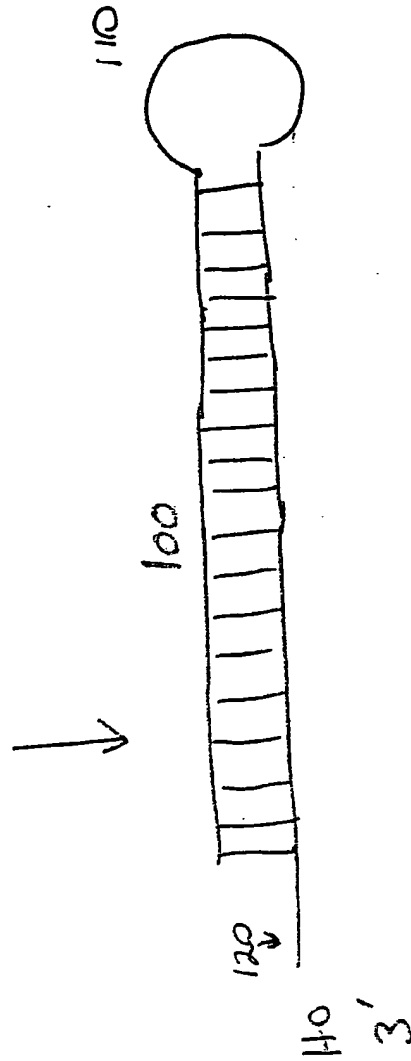


Figure 15



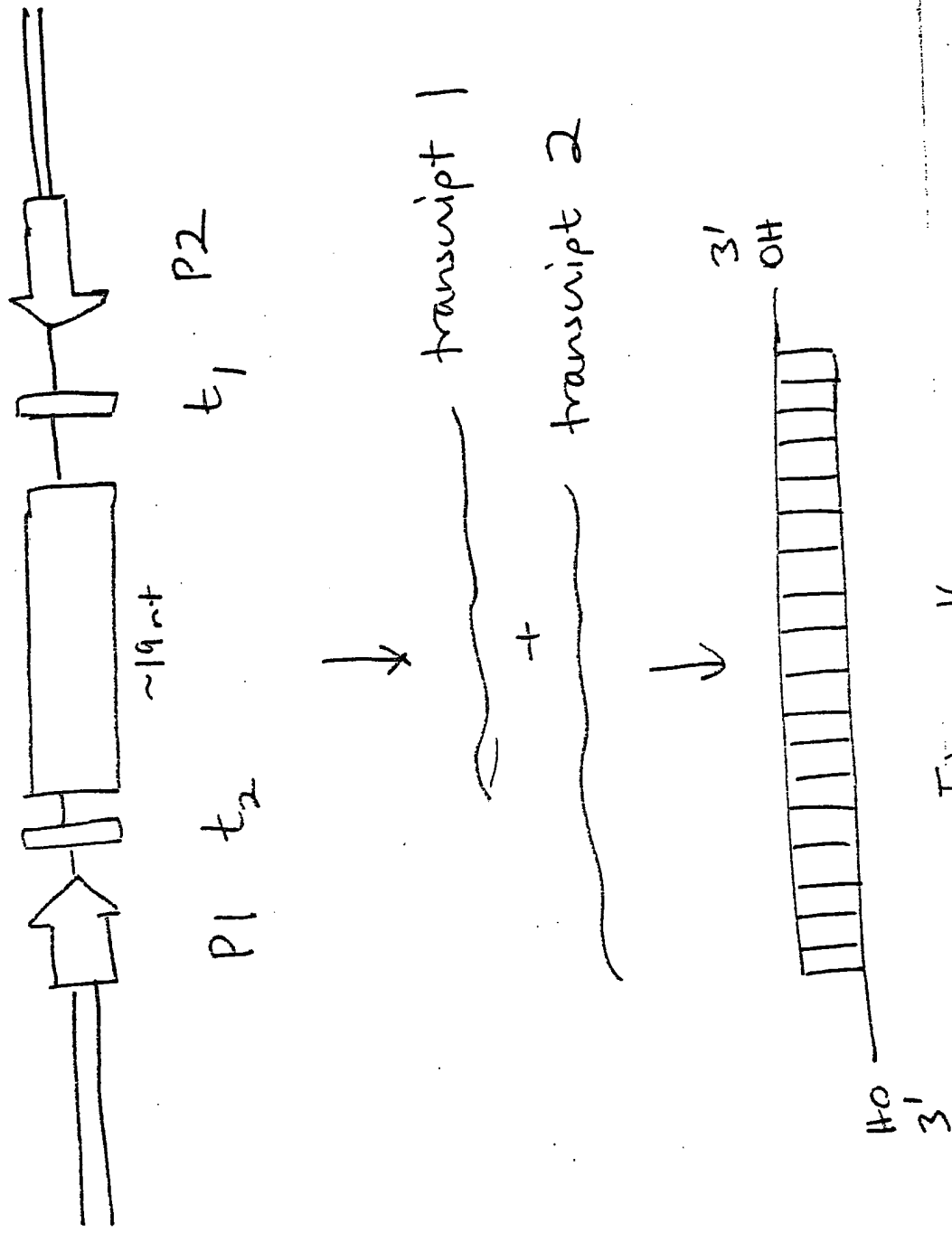
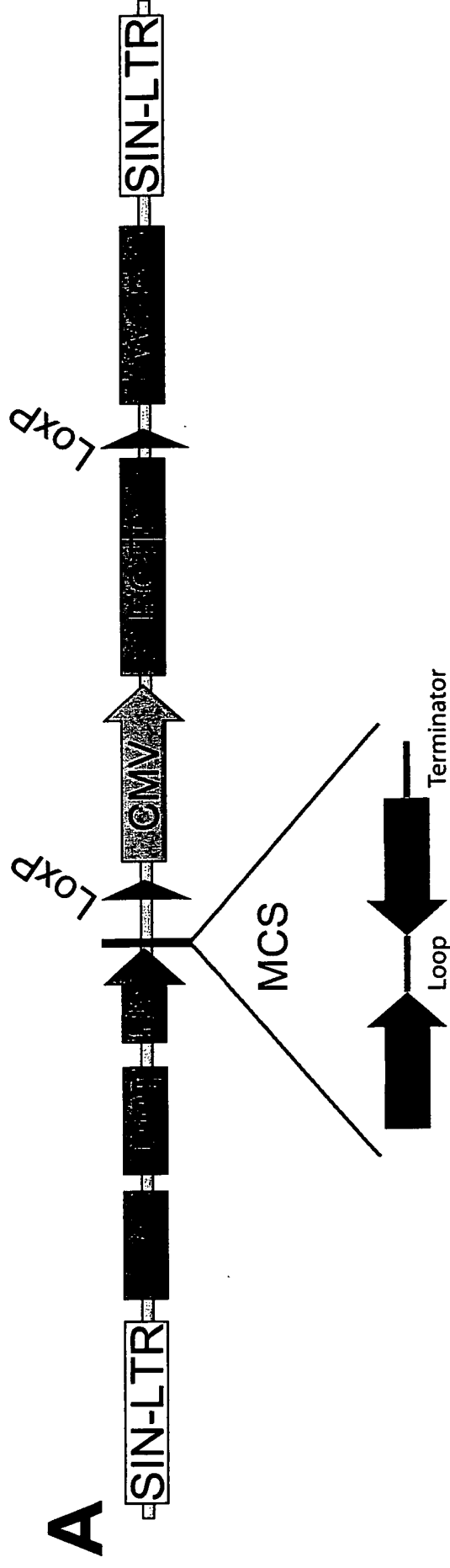


Figure 16

## Figure 17



## B CD8 Stem Loop Sequence

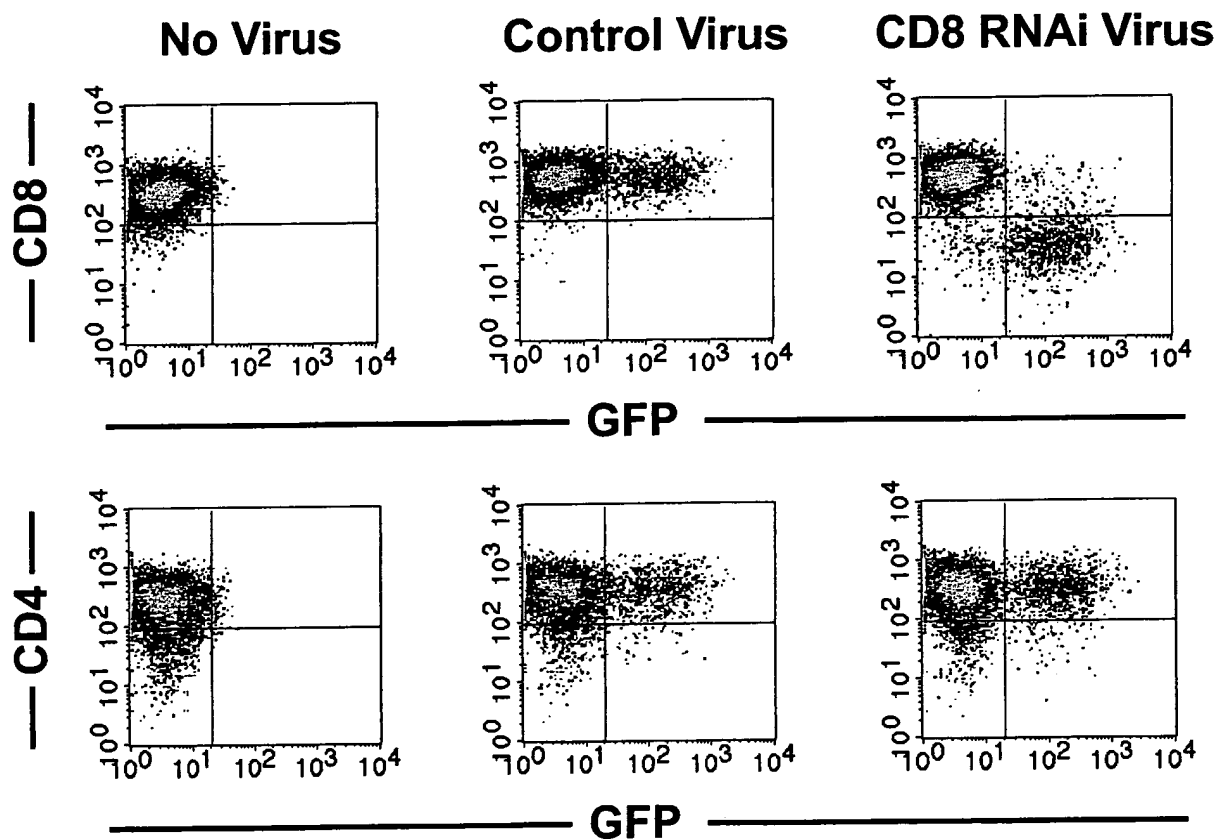
+1 	Loop	Terminator
TGCTACA	ACTACATGAC	TTCAAGAGAGTCATGTAGTGTAGCTTTTTTG
ACGATGT	TGATGTA	CTGAAGTTCTCTCAGTACATCATCAACATCGAAAAAACATTG

## C Predicted CD8 Stem Loop

+1  
 |  
 GCUACAACUACAUGAC  
 |||||  
 CGAUGUUGAUGAUCUG  
 UU

Figure 18

**A**



**B**

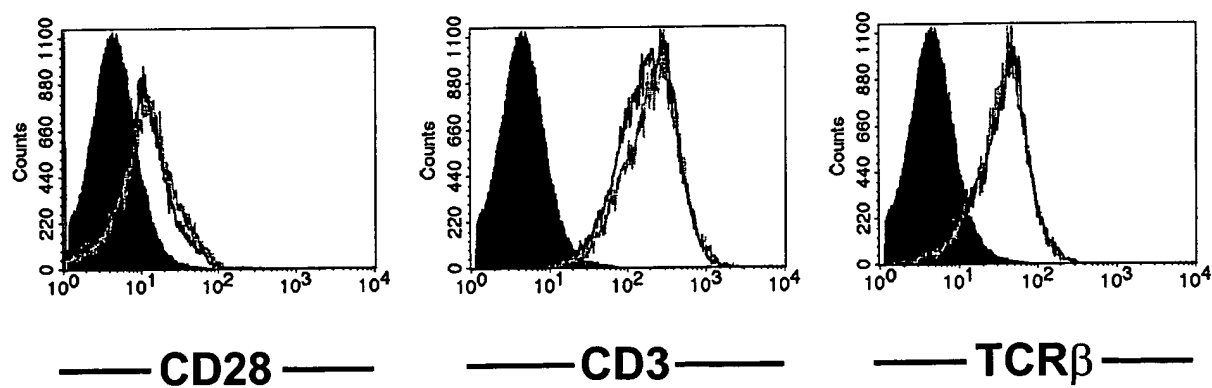


Figure 19

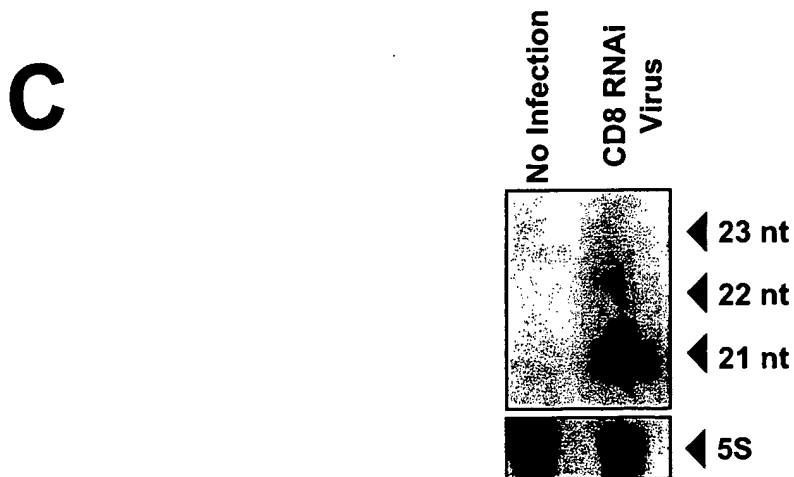
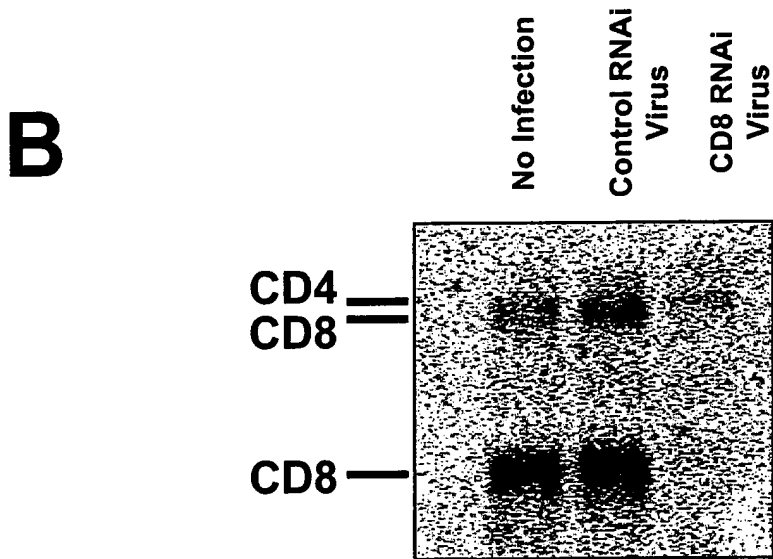
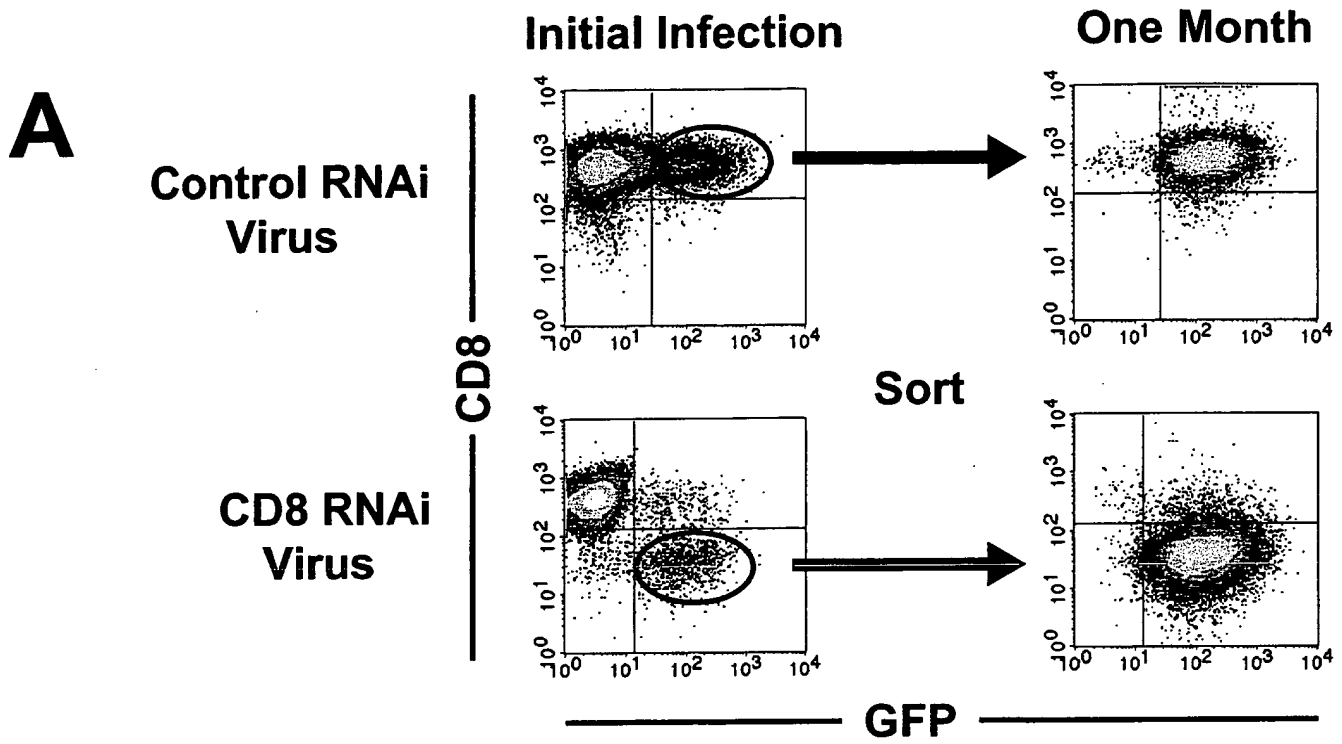


Figure 20

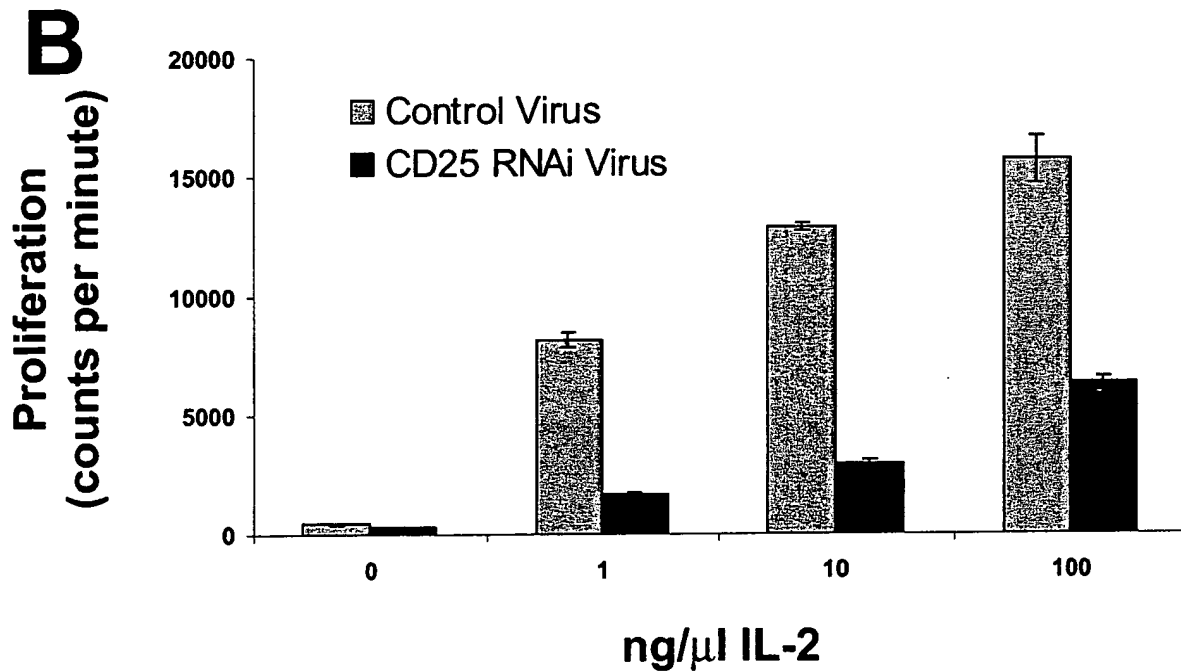
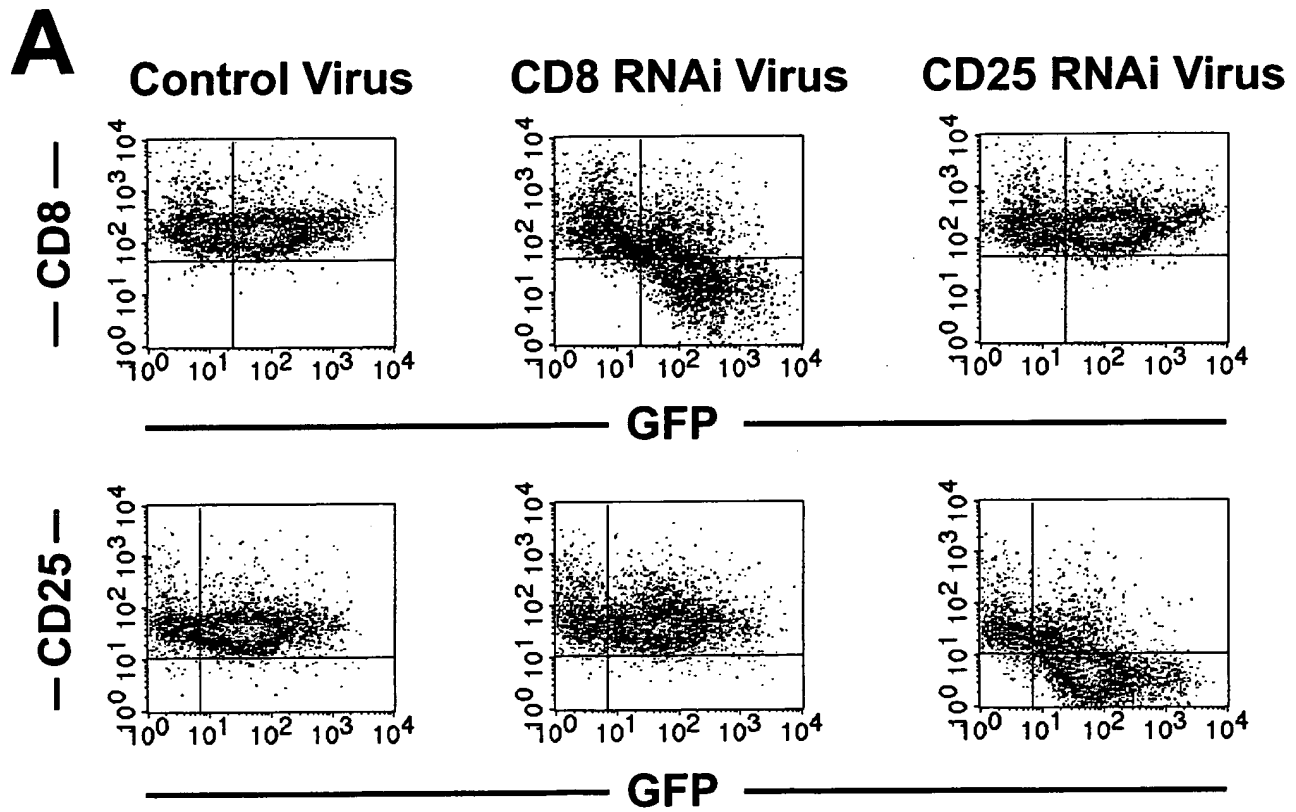
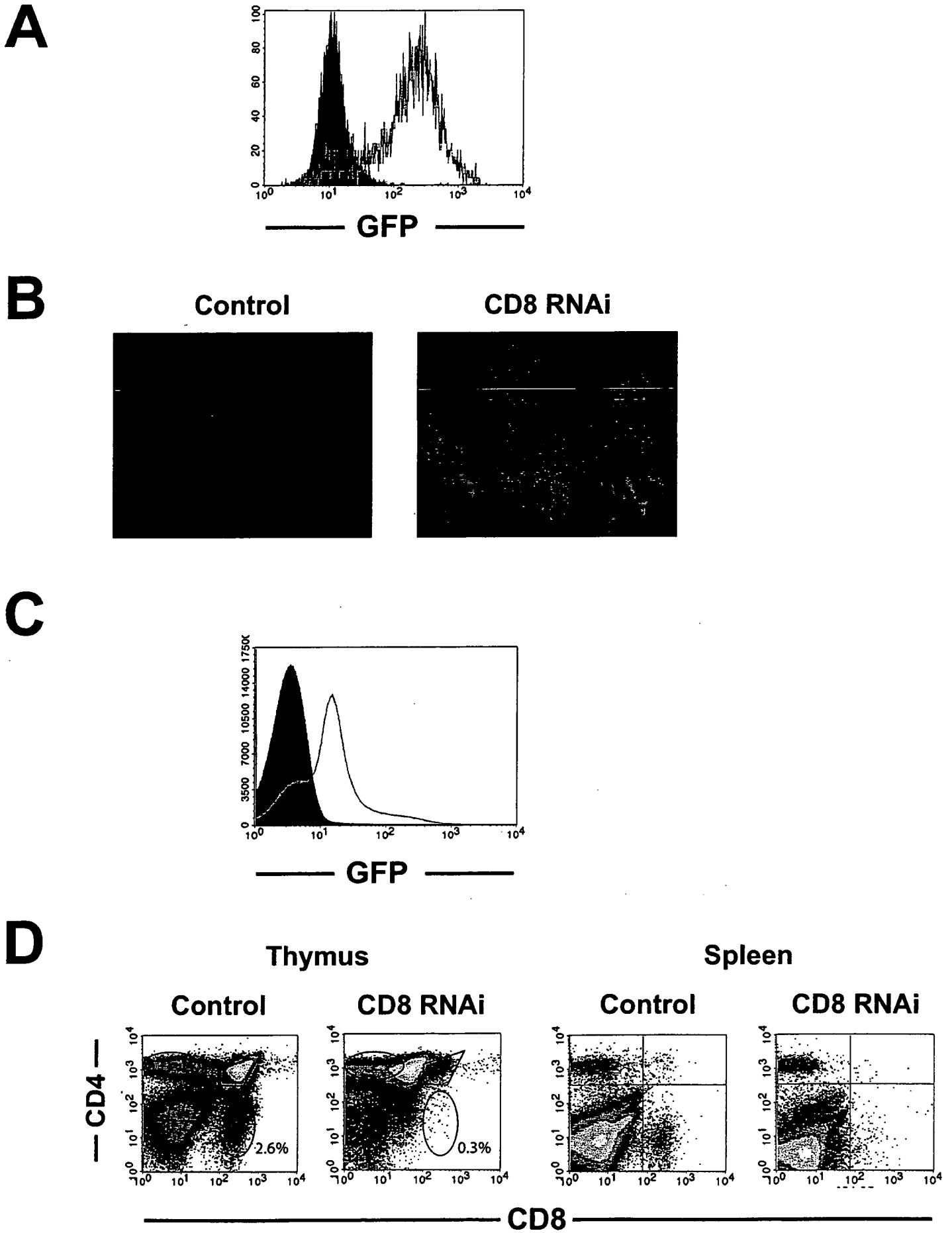
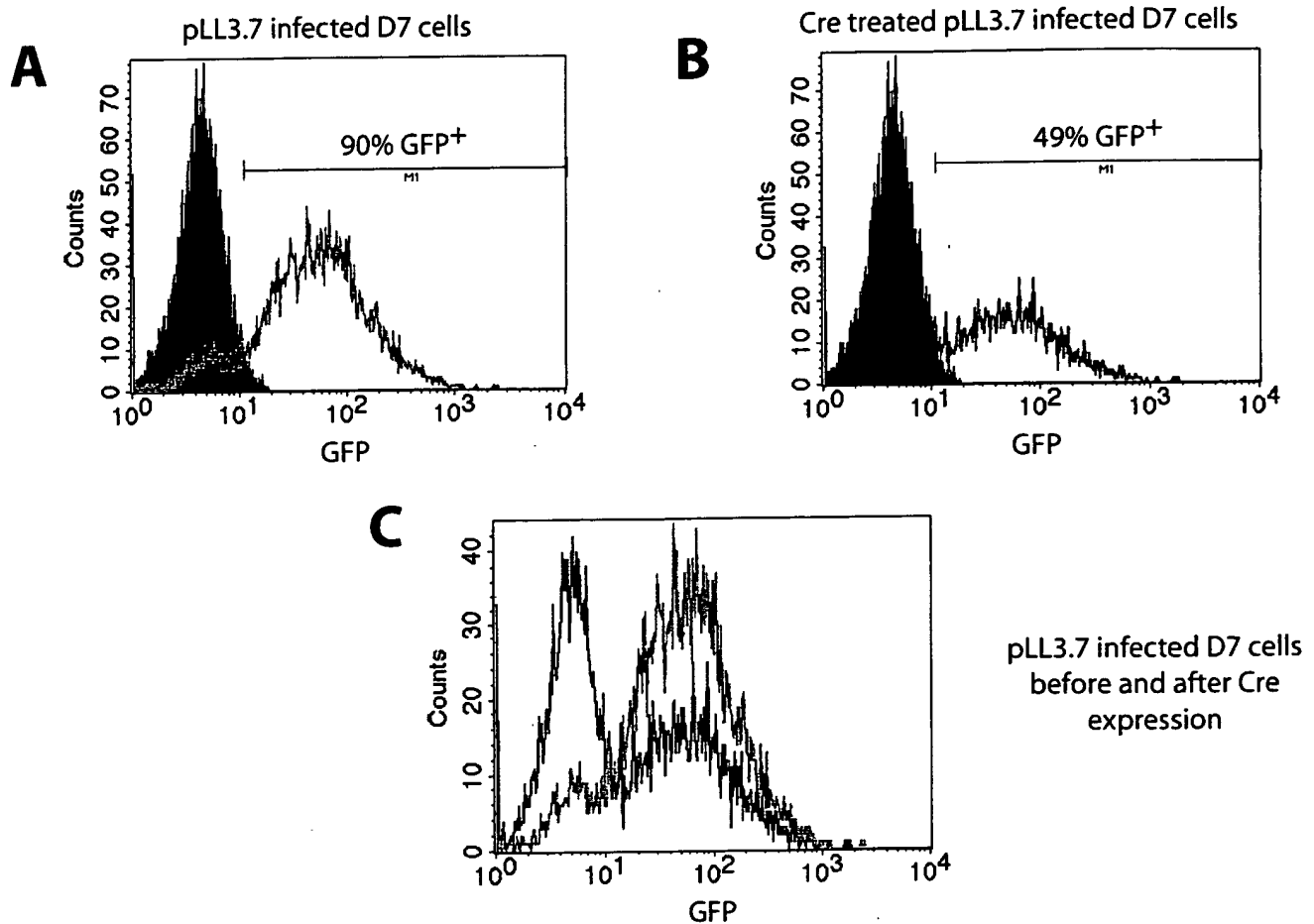


Figure 21

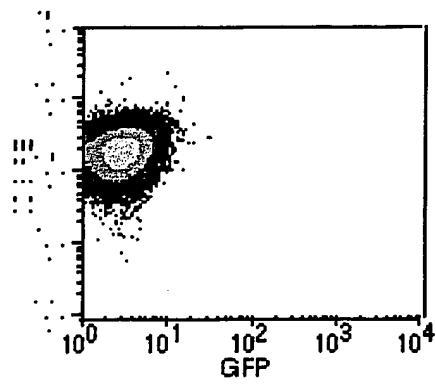


## FIGURE 22

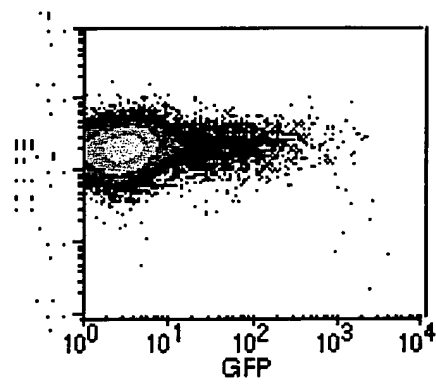


A 50% confluent 10cm plate of D7 cells (Bear et al. 2000), was infected with 100ul of concentrated pLL3.7 B-catenin lentivirus, which expressed GFP as a transgene between two LoxP sites. Infected cells were sorted based upon expression of EGFP (**A, green line**). A 50% confluent 6cm-plate of sorted D7 pLL3.7 b-catenin cells was infected with adenovirus expressing the Cre recombinase.  $1 \times 10^5$  infectious units were used in the infection. Cells were expanded for 10 days to allow for expression of Cre protein, deletion of lox-CMVgfp-lox, and depletion of EGFP protein pools. Cells were then analyzed by flow cytometry for expression of EGFP (**B, pink line**). Cells were also sorted based upon loss of EGFP expression and expanded. Purple solid peak in A and B represent uninfected control. Percentage GFP<sup>+</sup> cells are shown on each plot. A direct comparison between pLL3.7 infected D7 cells before (**green line**) and after (**pink line**) Cre delivery is seen in **C**.

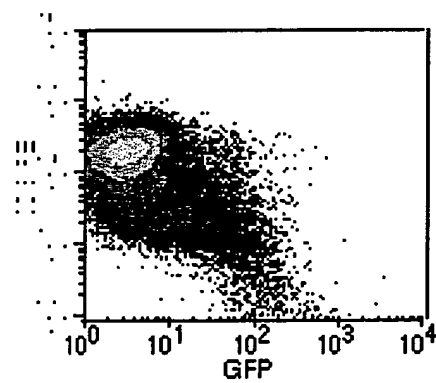
Figure 23



untransfected



transfected w/  
irrelevant stem loop



cd8 stem loop in LL2.7



Figure 24

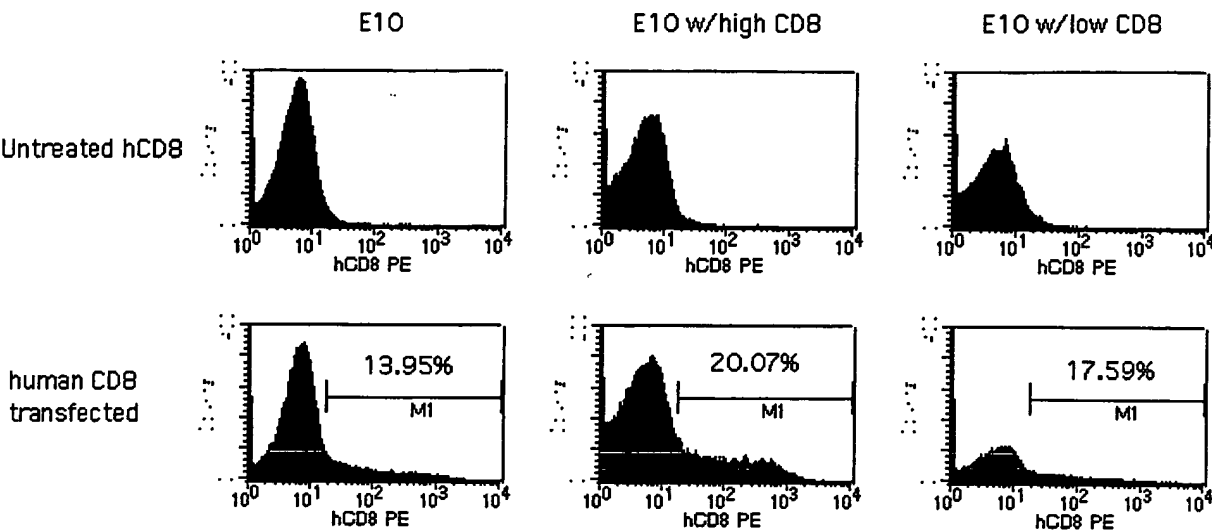


Figure 25

